## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: ROBERT J. ROSE SHELDON & MAK PC 225 SOUTH LAKE AVENUE, 9TH FLOOR PASADENA, CA 91101-3005	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION RESPONSE WIPPER 144.1) RESPONSE WIPPER 144.1) RESPONSE WIPPER 144.1)				
	Date of mailing (day/month/year) 10 AUG 2004				
Applicant's or agent's file reference 14437-1PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US04/08473	International filing date (day/month/year) 19 March 2004 (19.03.2004)				
Applicant NIK MULTIMEDIA, INC.					
Authority have been established and are transmitted herever Filing of amendments and statement under Article 19:	Authority have been established and are transmitted herewith.				
The applicant is entitled, if he so wishes, to amend the cla  When? The time limit for filing such amendments is search report.	aims of the international application (see Rule 46):  normally two months from the date of transmittal of the international				
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No	D, 34 chemin des Colombettes .: +41 22 740 14 35				
	For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.					
3. With regard to the protest against payment of (an) addit	tional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.					
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					
	ns (or later) will apply even if no demand is filed within 19 months.				
Guide, Volume II, National Chapters and the WIPO Internet site	e applicable time limits, Office by Office, see the PCT Applicant's				
Name and mailing address of the ISA/ US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents  P.O. Box 1450  Alexandria, Virginia 22313-1450  Facsimile No. (703) 305-3230	Authorized officer  John B Strege  Telephone No. (703) 305-3800				

Form PCT/ISA/220 (January 2004)

## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	olicant's 37-1PC	or agent's file reference	FOR FURTHER	Report (F	cation of Transmittal of International Search orm PCT/ISA/220) as well as, where applicable,		
International application No. Inter		Lamplication No.	ACTION	item 5 bel	low.		
pomyron violate			(Earliest) Priority Date (day/month/year) 19 March 2003 (19.03.2003)				
	olicant MULT	IMEDIA, INC.					
<u> </u>	<del></del>						
This	s international states	ational search report has been a Article 18. A copy is bein	n prepared by this International Se g transmitted to the International F	arching Aı Bureau.	uthority and is transmitted to the applicant		
This	s interna	ational search report consists	of a total of sheets.				
			d by a copy of each prior art document	ment cited	in this report.		
1.		f the Report	the image and a second				
	a.	language in which it was filed	, unless otherwise indicated under the	nis item.	basis of the international application in the		
1		the international search was	s carried out on the basis of a transla	tion of the	international application furnished to this		
	b.	Authority (Rule 23.1(b)). With regard to any nucleotide search was carried out on the	e and/or amino acid sequence discle basis of the sequence listing:	osed in the	international application, the international		
		contained in the international	al application in written form.				
		filed together with the inter-	national application in computer read	dable form			
		furnished subsequently to th	nis Authority in written form.				
	furnished subsequently to this Authority in computer readable form.						
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		the statement that the information been furnished.	nation recorded in computer readabl	e form is i	dentical to the written sequence listing has		
2.		Certain claims were found	unsearchable (See Box I).				
3.		Unity of invention is lacking	ng (See Box II).				
4.	With r	egard to the title,					
	$\bowtie$	the text is approved as subm	nitted by the applicant.				
		the text has been established	1 by this Authority to read as follows	s:			
5.	With r	egard to the abstract,					
		the text is approved as subm	nitted by the applicant.				
	$\boxtimes$	the text has been established within one month from the o	I, according to Rule 38.2(b), by this date of mailing of this international s	Authority search repo	as it appears in Box III. The applicant may, ort, submit comments to this Authority.		
6.	The fig	sure of the drawings to be put	blished with the abstract is Figure N	o. 7			
		as suggested by the applican	•	-	None of the figures		
		because the applicant failed	to suggest a figure.		,		
	$\boxtimes$	because this figure better ch					
		-					

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08473

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

A method for image processing of a digital image is described comprising applying an image processing filter (17) as a function of the correspondence between each pixel in the image and a first target image characteristic (12) and a second target image characteristic (13). In a further embodiment, a method is described comprising applying an image processing filter as a function of the correspondence between each pixel, the received target image characteristic, and the input received from a user pointing device. A system and application user interface is also described.					
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			·		
orm PCT/ISA/210 (continuation of first she	pet(2)) (July 1908)				

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08473

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06K 9/40						
US CL	• • •					
	According to International Patent Classification (IPC) or to both national classification and IPC					
	DS SEARCHED					
Minimum do	cumentation seasohed (classification system followed b	ar alessification				
US · 3	cumentation searched (classification system followed b 82/261, 254,260,263,264,274,275,167; 348/606,6076	by classification symbols)				
0.5 5.	02/201, 25 1,200,205,204,2/4,2/5,10/, 540/000,00/0	10				
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched			
		***************************************				
	ta base consulted during the international search (name	e of data base and, where practicable, sear	ch terms used)			
IEEE						
C. DOC	UMENTS CONSIDERED TO BE RELEVANT	· · · · · · · · · · · · · · · · · · ·				
Category *	Citation of document, with indication, where a	opropriate, of the relevant passages	Relevant to claim No.			
X	US 6,204,858 B1 (Gupta) 20 March 2001, col. 1, lir		1-6, 8-10,13-14,17-			
			18,20,22-25,27-29			
Y						
			7,11-12,15-			
			16,19,21,26			
Y	US 5,506,946 (Bar et al.) 9 April 1996 (09.04.1996)	, column 2, lines 32-67, column 3 lines	7,11-12,15-			
	1-35.		16,19,21,26			
Α	US 6,347,161 B1 (Mancuso) 12 February 2002 (12.0	22.2002), whole document	1-21			
	·					
	•					
			+			
Further	documents are listed in the continuation of Box C.	See patent femily appear				
	pecial categories of cited documents:	See patent family annex.  "T" later document published after the inter				
	pecial categories of cited documents.	"T" later document published after the inter date and not in conflict with the applica-				
	defining the general state of the art which is not considered to be	principle or theory underlying the inve				
oi particu	lar relevance	"X" document of particular relevance; the o	laimed invention cannot be			
"E" earlier ap	plication or patent published on or after the international filing date	considered novel or cannot be consider	red to involve an inventive step			
"L" document	which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone				
establish t	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the o				
specified)		considered to involve an inventive step combined with one or more other such				
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the				
"P" document published prior to the international filing date but later than the		"&" document member of the same patent if	Family			
priority date claimed						
Date of the ac	ctual completion of the international search	Date of mailing of the international search	ch report			
	·	1 0 AUG 2004				
19 July 2004		@ @ 110 G LUUT	/			
	ailing address of the ISA/US	Authorized officer				
	I Stop PCT, Attn: ISA/US nmissioner for Patents	John B Strege				
P.O	. Box 1450	p / way				
	Alexandria, Virginia 22313-1450 Telephone No. (708) 305-3800					
Facsimile No	. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (July 1998)

### **→ PATENT COOPERATION TREA**

From the

INTERNATIONAL	SEARCHING.	ATITHORITY

10:
ROBERT J. ROSE
SHELDON & MAK PC
225 SOUTH LAKE AVENUE, 9TH FLOOR
PASADENA, CA 91101-3005

# **PCT**

PASADENA, CA 91101-3005		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
			(PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	10 AUG 2004	
Applicant's or agent's file reference		FOR FURTHER ACTION		
14437-1PCT			See paragraph 2 below	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US04/08473	19 March 2004 (19.03.2			
International Patent Classification (IPC)	or both national classificat	ion and IPC		
IPC(7): G06K 9/40 and US Cl.: 382/261				
Applicant	•			
NIK MULTIMEDIA, INC.		····		
1. This opinion contains indications rel	ating to the following item	s:		
Box No. I Basis of the	оріліоп			
Box No. II Priority				
Box No. III Non-establi	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of uni	Lack of unity of invention			
	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain doc	Certain documents cited			
Box No. VII Certain defe	Certain defects in the international application			
Box No. VIII Certain obs	VIII Certain observations on the international application			
2. FURTHER ACTION				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the ISA/ U	S	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		John B Strege	f Prenent	
P.O. Box 1450			/	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. (7	703) 305-3800	

Form PCT/ISA/237 (cover sheet) (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/08473

BOX INC	b. 1 Basis of this opinion
1. With it was	regard to the language, this opinion has been established on the basis of the international application in the language in which filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With claime	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	ional comments:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/08473

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement			-
Novelty (N)	Claims NONE	YES	S
	Claims 1-6, 8-10, 13-14	4, 17-18, 20, 22-25, 27-29 NO	
Inventive step (IS)	Claims NONE	YES	s
	Claims 7,11-12,15-16,1	9,21,26 NO	
Industrial applicability (IA)	Claims 1-29	YES	s
	Claims NONE	NO	
		•	

#### 2. Citations and explanations:

Claims 1-21 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Claims 1-6, 8-10, 13-14, 17-18, 20, 22-25, and 27-29 lack novelty under PCT Article 33(2) as being anticipated by Gupta, USPN 6,204,858.

Gupta discloses a computer-implemented method to adjust color data of pixels of a digital image by identifying pixels of a digital image having original color data corresponding to predetermined color and shape characteristics, and adjusting the original color data of the identified pixels to achieve a desired result (col. 1 lines 30-36). This is done for the correction of red eye in photographs. Digital images are filtered based on predetermined color characteristics and shape characteristics (col. 1 lines 42-55). Here the color characteristics can be read as a first target characteristic, and the shape characteristics as a second target characteristic. A user interface is provided such as PhotoDeluxe in which the user selects an area in the digital image for color adjustment (col. 3 lines 18-26). One type of possible user interface disclosed allows the user to define the vertices or edges of a rectangle (col. 3 lines 16-17). To identify the red eye effect, the color red may be enhanced in the image to more easily identify red circular areas (col. 3 lines 19-26), thus providing an adjustment parameter. This takes into account the intensity of the pixels (col. 3 lines 41-52) and allows for modification. An interactive test may be optionally provided to allow the user to verify whether the identified red eye area candidate actually corresponds to a red eye are (col. 4 lines 62-65), thus allowing the user to determine pixel characteristics. As seen in figure 3, Gupta discloses a CPU 310, in correspondence with RAM 320, and a mouse 370. Gupta further states that a user interface may be provided to allow a user to set a default color (col. 5 lines 46-48).

Claims 7, 11-12, 15-16, 19, 21 and 26 lack an inventive step under PCT Article 33(3) as being obvious over Gupta USPN 6,204,858 in view of Bar et al. USPN 5,506,946 (hereinafter "Bar"). As discussed, Gupta discloses the limitations of claim 6. Gupta does not explicitly disclose a slider or the details of the user interface beyond that it could be PhotoDeluxe.

Bar discloses selective color correction using a GUI as seen in figure 7, which has sliders to adjust the saturation and lightness.

Gupta and Bar are analogous art because they are from the same field of endeavor of color adjustment.

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine Gupta and Bar to obtain a graphic user interface using sliders. The motivation for doing so would be to allow the user to adjust parameters in an incremental manner such as with a slider. Thus it would have been obvious to one of ordinary skill in the art to combine Gupta and Bar to obtain the invention as specified in claim 7.

Claim 16 is similar to claim 7 and thus the same argument applies.

Regarding claim 26, Bar discloses the target color in figure 7.

Regarding claims 12, 19, and 21 it is well known in the art to provide camera-specific default settings and would be obvious to do so.

Regarding claims 11, and 15 Bar discloses selecting a color with a mouse and determining the colorimetric values for the color (col. 2 lines 32-45).

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

### The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
- "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

  4. [Where various kinds of amendments are made]:
  "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.